MATH 132-03 – Discrete and Combinatorial Mathematics

Semester: Spring 2019
Instructor: Müfit Sezer   **E-mail:** sezer@fen.bilkent.edu.tr
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Exams & Grading:
- **1ˢᵗ Midterm** (30%)   To be arranged
- **2ⁿᵈ Midterm** (30%)   To be arranged
- **Final Exam** (34%)   Finals week
- **Homework** (%6)
- Homework will be assigned and graded via McGraw-Hill Connect.

Visit https://connect.mheducation.com/class/m-sezer-all to enroll. You
need a valid registration code, supplied with your copy of the textbook sold by
the Meteksan Bookstore.
If the sum of your midterm scores is less than 40 (out of 200), you will receive
an FZ-grade.

Course Schedule: Tuesday   10.40–12.30, Friday 8:40–10:30   Room G-236
Office Hours: Thursday   13:40–14:30 or by appointment

Course website: Moodle

Make-up Policy: You must have a valid written excuse, approved by Bilkent, to make up for a missed
exam and it needs to be approved by your department or institution. A single
make-up exam is given during the last week of classes, covers the entire syllabus.

Textbook: Kenneth H. Rosen, *Discrete Mathematics and Its Appplications, 8th Edition.*
Other: **• No cell phones or computers during lectures.**

<u>Tentative</u> course schedule

Week	Subject	MT
#1	Sets, Functions, Cardinality of Sets. (2.1–2.5)	
#2	Modular Arithmetic, Primes and Greatest Common Divisors. (4.1–4.3)	
#3	Congruences, Applications (4.4)	
#4	Induction and well-ordering (5.1–5.2)	
#5	Counting and the pigeonhole principle (6.1–6.2)	
#6	Counting (6.3–6.4)	
#7	Generalized permutations and combinations (6.5–6.6)	
#8	Advanced Counting Techniques (8.1–8.2)	
#9	Advanced Counting Techniques (8.4)	
#10	Advanced Counting Techniques (8.5–8.6)	
#11	Relations (9.1)	
#12	Relations (9.5–9.6)	
#13	Graphs (10.1–10.3)	
#14	Graphs (10.4–10.6)	
#15	Graphs (10.7–10.8)	